

1966

Committee on curricular Affairs (28th report) redesigning the Department of Bacteriology and Biophysics, and approving course changes and minor curriculum changes from CCA, the Colleges of Agriculture, Arts, and Sciences, Engineering, Home Economics, and the Graduate Library School.

University of Rhode Island Faculty Senate

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UNIVERSITY OF RHODE ISLAND

FACULTY SENATE

BILLAdopted by the Faculty SenateRECEIVED
UNIVERSITY OF R. I.

MAR 23 1966

OFFICE OF THE PRESIDENT

TO: President Francis H. Horn

FROM: Chairman of the Faculty Senate

- Committee on Curricular Affairs (28th report)
1. The Attached BILL, titled establishing a new Department of Biochemistry, redesignating the Department of Bacteriology and Biophysics, and approving course changes and minor curriculum changes from the CCA, the Colleges of Agriculture, Arts and Sciences, Engineering, Home Economics, and the Graduate Library School.

is forwarded for your consideration.

2. The original and two copies for your use are included.
3. This BILL was adopted by vote of the Faculty Senate on March 17, 1966 (date).
4. After considering this bill, will you please indicate your approval or disapproval. Return the original or forward it to the Board of Trustees, completing the appropriate endorsement below.
5. In accordance with Section 8, paragraph 2 of the Senate's By-Laws, this bill will become effective on April 7, 1966 (date), three weeks after Senate approval, unless: (1) specific dates for implementation are written into the bill; (2) you return it disapproved; (3) you forward it to the Board of Trustees for their approval; or (4) the University Faculty petitions for a referendum. If the bill is forwarded to the Board of Trustees, it will not become effective until approved by the Board.

March 23, 1966
(date)Elizabeth W. Grandall /s/
Chairman of the Faculty Senate-----
ENDORSEMENT 1.

TO: Chairman of the Faculty Senate

FROM: President of the University

1. Returned.
2. Approved X. Disapproved _____.
3. (If approved) In my opinion, transmittal to the Board of Trustees is not necessary.

May 24, 1966
(date)Francis H. Horn /s/
President

ALTERNATE ENDORSEMENT 1.

TO: Chairman of the Board of Trustees.

FROM: The University President

1. Forwarded.

2. Approved.

_____/s/
(date) President

ENDORSEMENT 2.

TO: Chairman of the Faculty Senate

FROM: Chairman of the Board of Trustees, via the University President.

1. Forwarded.

_____/s/
(date)

(Office)

ENDORSEMENT 3.

TO: Chairman of the Faculty Senate

FROM: The University President

1. Forwarded from the Chairman of the Board of Trustees.

_____/s/
(date) President

Original received and forwarded to the Secretary of the Senate and Registrar
for filing in the Archives of the University.

_____/s/
(date) Chairman of the Faculty Senate

UNIVERSITY OF RHODE ISLAND
Kingston, Rhode Island

submitted March 17, 1966

Faculty Senate Committee on Curricular Affairs, 28th Report (full)

At its meeting on February 24, 1966, the Faculty Senate Committee on Curricular Affairs considered the following matters, and now wishes to report to the Faculty Senate certain items for information and others for confirmation, as indicated:

I. INFORMATIONAL MATTERS

A. From the College of Agriculture

1. Department of Food and Resource Economics

F. & R. Ec. 5, Economics in Food Production and Distribution
(changes in title, description, and time offered)

B. From the College of Arts and Sciences

1. Department of Art

Changes in number, all at the same level, changes in time distribution (from "Lec./Lab." to "Studio"), some changes in description and in prerequisites, brought about by a restructuring of the departmental offerings into four or five disciplines with a numerical designator for each, affecting:

- Art 1, Visual Design
- 2, Visual Design
- 7 (5), Drawing
- 21 (3), Intermediate Studio
- 22 (4), Intermediate Studio
- 91 (9), Printmaking - Relief
- 41 (6), Introductory Sculpture
- 51 (23), 52 (24), Introduction to History of Art
- 123 (105), Advanced Studio
- 124 (106), Advanced Studio
- 129 (120), 130 (121), Senior Projects
- 157 (107), The Art of the Renaissance in Italy
- 159 (108), Baroque Art
- 151 (109), 162 (110), Modern Art
- 168 (118), Principles of Art History and Criticism

2. Department of Chemistry

Changes in departmental designation and other minor changes necessary to accommodate the action of the Committee (Item II, A., 1.), separating the offerings in biochemistry and biophysics from the department, and affecting:

- Biochem. 10 (Chem. 25), Introductory Biochemistry
- 11 (Chem. 26), Biochemistry Laboratory
- 101 (Chem. 190), Chemistry and Biochemistry of Carbohydrates
- 180, 181 (Chem. 180, 181), General Biochemistry
- 201 (Chem. 292), Seminar in Biochemistry
- 202, 203 (Chem. 283, 284), Intermediary Metabolism
- 300, 301 (Chem. 381, 382), Laboratory Techniques in Biochemistry
- 302 (Chem. 393), Enzymes
- ~~Bact. &~~ Biophys. 221 (Chem. 221), Introductory Biophysics
- 222 (Chem. 222), Intermediate Biophysics
- 311 (Chem. 311), Advanced Biophysics

3. Department of Dental Hygiene

Title changes and one time distribution change, affecting:

- D. Hyg. 25, Oral Anatomy
- 26, General and Oral Histology and Embryology
- 27, General and Oral Pathology
- 31, Roentgenology

4. Department of Geology

Approval of a graduate program leading to the degree of Master of Science.

5. Departments of Mathematics and Physics

Deletion of the option of Physics 1 and 2 from both major curriculums in mathematics and physics.

6. Department of Political Science

Changes of course descriptions, affecting:

- Poly. Sci. 71, European Comparative Government
- 103, Governments of South Asia
- 107, Government of the Soviet Union

7. Departments of Physical Education for Men and Women

Approval of a graduate curriculum in physical education, leading to the degree of Master of Science.

8. Department of Speech and Theatre

Minor changes in course descriptions, prerequisites, and title, brought about by a study of the departmental offerings, preparatory to the development of the radial major in speech, affecting:

- Speech 1, Fundamentals of Oral Communication
- 2, Public Speaking
- 21, Group Discussion
- 23, Argumentation and Debate
- 27, Elements of Persuasion
- 32, Oral Interpretation of Literature
- 51, Broadcasting in America
- 52, Fundamentals of Broadcasting
- 103, Rhetoric
- 105, History and Criticism of Public Address
- 113, Phonetics
- 191, 192, Special Problems

C. From the College of Engineering

1. Changes in prerequisites, affecting:

- Chem. Eng. 13, Chemical Engineering Thermodynamics
- 25, Process Dynamics and Control

2. Change curriculum for all Engineering Freshmen, as of September, 1966, to add C. S. 1 (1 cr.) and Engr. 2 (1 cr.) to accommodate item II., A., 2., and II., D., 3., b. this report

D. From the College of Nursing

Statement of policies and proposals to permit admission of registered nurse graduates to the present basic baccalaureate program in nursing, effective September, 1966. The program is one of advanced placement of applicants by examination, departmental and otherwise, by evaluation of clinical experience, etc., to allow for course credit within the present structure of the nursing curriculum.

E. From the Graduate School of Oceanography

Changes in description and time offered for:

- Ocean. 390 Oceanographic Equipment and Techniques.
Semester II, 3 credits

F. College of Home Economics

- 1. Dept. of Child Development and Family Relations
See addendum relating to CF 37 and CF 39
(following p. 13)

II. MATTERS REQUIRING CONFIRMATION OF THE FACULTY SENATE

A. From the Committee on Curricular Affairs

1. Via Dean Jerome M. Pollack, recommendation of the following departmental organizational changes in the College of Arts and Sciences:

- a. A new department be created called the Department of Biochemistry.
- b. The existing Department of Bacteriology be redesignated as the Department of Bacteriology and Biophysics.
- c. Those courses now offered under the auspices of the Department of Chemistry that are in the area of biochemistry be transferred to the Department of Biochemistry, and, similarly, those courses in the area of biophysics be transferred to the Department of Bacteriology and Biophysics.
- d. These changes be effective July 1, 1966.

2. Via Vice-President F. Don James

Add CS 1, Digital Computation, Semester I or II, 1 credit

This course is designed to acquaint beginning engineering students with the fundamentals of: digital computer organization, programming in a problem-oriented language, and the use of digital computers to solve engineering problems.

(Lab. 3) Prerequisite: Credit or concurrent registration in Math. 41

3. Via the Chairmen of the Departments of Economics and Political Science

Approve catalogue information for
Political Economy

21, 22. Political and Economic Change in Contemporary American Society Semesters I and II, 6 credits

The processes of social change are studied by application of the analytical techniques of Economics and Political Science. (Lec. 3) Both semesters must be completed. Not open to students who have credit for or are registered in Econ. 23, 25 or Pol. Sci. 13.

ECONOMICS AND POLITICAL SCIENCE STAFFS

B. From the College of Agriculture

1. Department of Food and Resource Economics

Renumber F. & R. Econ. 31 as F. & R. Ec. 131 (31), Land Economics
Semester I, 3 credits

2. Department of Plant Pathology-Entomology

Add Pl. Path.-Ent. 301. The Nature of Plant Disease
Semester I, 3 credits

Analysis of the nature of plant disease, the concepts of infection and pathogenesis, and the interaction of plant, pathogen, and environment in the disease process. (Lec. 3).
In alternate years, next offered 1966-67. Prerequisite:
Bot. 31 or equivalent. Beckman and Mueller

C. From the College of Arts and Sciences

1. Department of Art

a. Delete Art 11, Introduction to Advertising Art
Semester I or II, 3 credits
115, 116, Art in its Cultural Context
Semesters I and II, 3 cr. ea.
119, Documentary History of Art
Semester II, 3 credits

b. Add Art

8. Drawing Semester I or II, 3 credits
Continuation of Art 7 with more complex media. Exercises emphasizing spatial alignments, random organizations and non-objective graphic structuring. (Studio 6)
Prerequisite: Art 2 and 7 or permission of department Staff

32. Printmaking-Intaglio Semester I or II, 3 credits
Introduction to etching, engraving and related traditional and experimental intaglio processes. (Studio 6) Prerequisite: Art 2 or permission of department. Staff

42. Introductory Sculpture Semester I or II, 3 credits
The formation of three dimensional forms employing basic sculptural materials and techniques. Exercises to explore the basic media with emphasis on form, material and structural means. (Studio 6) Prerequisite: Art 41 or permission of department. Staff

C. College of Arts and Sciences

Art

133. Printmaking-Planographic Semester I or II, 3 credits
Experiment and practice in the techniques of lithography.
(Studio 6) Prerequisite: Art 2 or permission of department.
Staff

134. Printmaking-General Semester I or II, 3 credits
The student will continue with projects related to an area
of printmaking previously studied. (Studio 6) Prerequisite:
Art 31, 32 or 133, or permission of department. Staff

139, 140. Printmaking-Senior Projects
Semesters I and II, 3-6 cr. ea.
Intensive independent work in printmaking (Studio 6-12).
Prerequisite: permission of department. Staff

143. Intermediate Sculpture Semester I or II, 3 credits
Advanced techniques of fabrication, including welding and
working with the newer plastic materials. An extended
range of sculptural expression emphasized. (Studio 6)
Prerequisite: Art 42 or permission of department. Staff

144. Intermediate Sculpture Semester I or II, 3 credits
Continuation of Art 143. (Studio 6) Prerequisite: Art 143
or permission of department. Staff

149, 150. Sculpture-Senior Projects
Semesters I and II, 3-6 cr. ea.
Intensive independent work in sculpture. (Studio 6-12)
Prerequisite: permission of department. Staff

153. The Art of Greece and Rome Semester I, 3 credits
A study of developments in architecture, painting and
sculpture in Greece and Rome from 800 B.C. to 400 A.D.
This will include a brief analysis of the art of the Aegean
from 2500 to 1500 B.C. (Lec. 3) Prerequisite: Art 51 or
permission of department. Staff

156 Medieval Art Semester II, 3 credits
A study of the development of medieval art from the Carolingian
Renaissance through the end of the Gothic period (800-
1400 A.D.), including an appraisal of painting, sculpture,
architecture and the minor arts. (Lec. 3) Prerequisite:
Art 51 or permission of department. Staff

163 American Art Semester I, 3 credits
The study of painting, sculpture and architecture from their
origin in the 17th century to the present, with special
emphasis on the 19th and 20th centuries. (Lec. 3) Prerequisite:
Art 52 or permission of department. Staff

C. College of Arts and Sciences

Art

169, 170 Art History - Senior Projects

Semesters I and II, 3-6 cr. ea.

Intensive independent research in art history. (Lec. 3-6)

Prerequisite: senior standing or permission of department.

Staff

2. Department of Education

a. Change Education 22 as follows:

Education

129 (22) Music in the Elementary School

Semester II, 3 credits

Fundamentals of music and methods employed in teaching music and making it a more meaningful and an integral part of the curriculum in the elementary school. (Lec. 3)

Abusamra

b. Add Education

353, 354 Supervised Field Work and Seminar in Guidance and Counseling

Semesters I and II, 3 cr. ea.

A clinically oriented course designed to give students an opportunity in selected school systems to apply and integrate guidance and counseling theories and skills. 200 clock hours of laboratory experience is required in addition to the seminar for the total of two semesters' work. (Lec. 2, Lab. 3) Prerequisite: Ed. 350 and permission of department.

3. Department of Geography

a. Change number and title of Geography 43 to:

Geography

143 (43), Geography in the United States and Canada

Semester I, 3 credits

and add prerequisites: "Geog. 1 or permission of department."

b. Add Geography

244 Historical Geography of the United States

Semester I, 3 credits

Selected regional analyses of the United States, stressing patterns of settlement, routes of migration, frontier advance, and resource development from the colonial period into the twentieth century. (Lec. 3) Prerequisite:

Geog. 143 or permission of the Department. Corey

C. College of Arts and Sciences

302 Research Methods in Geography

Semester II, 3 credits

Fundamentals of geographic research, including techniques of field observation and interpretation, and the introduction to the use of the Computer Laboratory and computer package program. (Lec. 3) Prerequisite: Geog. 191 or permission of department. Corey

4. Department of History

a. Renumber History 267 to:

History

175 (267) German History since 1860

Semester II, 3 credits

b. Add History

43 Introduction to Non-Western History

Semester II, 3 credits

Introduction to the history of the civilizations of Asia and Africa. Basic institutions of Islamic, Hindu, Buddhist, and Confucian societies; political, cultural, and religious factors which have shaped the modern non-western world. (Lec. 3) Kim and Roughton.

5. Department of Journalism

a. Delete Journalism 30, Report Writing

Semester I or II, 3 credits

b. Reduce credits and time designation for Journalism 26, to read:

Journalism

26 Reporting of Public Affairs Semester II, 3 credits

(Lec. 2, Lab. 2)

6. Department of Mathematics

a. Add Math. 8, Topics in Mathematics*

Semester II, 3 credits

This course is designed to introduce the non-mathematics students to the spirit of modern mathematics. The topics covered are from number theory, topology, set theory, algebra, and presuppose little mathematical background. Emphasis is on the development of reasoning ability and not on

C. College of Arts and Sciences

manipulative techniques. Not open to mathematics majors except for mathematics education students. (Lec. 3)

*Comment: The CCA has approved this course, except for the title; the Department has been unable to offer a more definitive one; and the Committee feels bound to report the course to the Senate, even lacking full approval. The matter seems not significant enough to warrant debate on the floor of the Senate, inasmuch as a minor change in title, if the Department develops a better one, can be handled later, on an informational basis. Expediency dictated the inclusion of the course in this, the last report of the CCA before the catalogue copy deadline. If the Senate approves, the title will enter the catalogue as given above, along with the other material cited.

7. Department of Political Science

- a. Delete Political Science 104, Government and Recent Political History of East Asia
Semester II, 3 credits

- b. Renumber Political Science 153 to:

Political Science
253 (153), Scope and Methods of Political Science
Semester I, 3 credits

- c. Add Political Science

204 Modern Far Eastern International Relations
Semester II, 3 credits

Patterns of State interaction in the Far East from the impact of the West in the 19th century to current Chinese Communist revolutionary tactics and strategy. Special attention to the role of the United States as a regional power. (Lec. 3) Prerequisite: Political Science 16 or permission of department. Staff

205 Politics of Developing Areas Semester I, 3 credits
Emerging political structures in newly-independent nations of Afro-Asia viewed against background of traditional institutions and in relation to processes of social change. Stress on problems of modernization. (Lec. 3) Prerequisites: Political Science 16, 71 or permission of department. Stein

C. College of Arts and Sciences

Political Science

206 The Communist Nations in World Affairs

Semester I, 3 credits

The foreign policies of the Communist nations; continuity and change in Soviet international conduct in historic perspective; competition with the West in the post-Stalin era; China's outlook on the world; the nature of the Sino-Soviet dispute; policy toward developing areas; stances on international organization, arms control and related issues. (Lec. 3) Prerequisite: Political Science 16, 107 or permission of department. In alternate years, next offered 1966-67. Stein

8. Department of Psychology

a. Add Psychology

270 Seminar in Phenomenology and Psychology*

Term II, 3 credits

Phenomenology as a method of psychological study. Emphasis upon current relationship between phenomenology and contemporary psychological issues - cognition, behaviorism, psychoanalysis. Special areas of interest (e.g., emotions, interpersonal relations, values) will be subjected to a phenomenological analysis. Prerequisite: Psy. 7, Phil. 1, permission of department. Hershkowitz

* Comment: This course was approved by the CCA, contingent upon the approval of the Graduate Council. The Council gave its approval at its meeting Friday, March 4, 1966

9. Department of Speech and Theatre

a. Add Speech

111 Introduction to Semantics Semester II, 3 credits

The role of language and other symbols in thought and communication. Problems of syntactical, notional, and representational meaning; the linguistic bases of productive and pathological communicative behavior. (Lec. 3) Prerequisite: permission of department. Williams

D. From the College of Engineering

1. Department of Chemical Engineering

a. Delete:

Ch. E. 245, Distillation Semester I, 2 credits

246, Absorption and Extraction

Semester II, 2 credits

D. College of Engineering

b. Renumber Chemical Engineering 33 and 81, to:

Ch. E.

133 (33), Engineering Metallurgy Semester I or II, 3 credits

181 (81) (or Nu. E. 181), Introduction to Nuclear Engineering
Semester I or II, 3 credits

c. Increase credits and time designation in two courses to read:

Ch. E.

243 Fluid Dynamics Semester I, 3 credits

244 Process Heat Transfer Semester II, 3 credits

d. Add Ch. E.

247 Mass Transfer I Semester I, 3 credits

An advanced course dealing with the application of mass transfer theory in the distillation of binary, multicomponent and complex mixtures. (Lec. 3) In alternate years, next offered 1967-68. Thompson

248 Mass Transfer II Semester II, 3 credits

An advanced study of mass transfer theory applied to gas-liquid, liquid-liquid and solid-liquid systems. (Lec. 3) In alternate years, next offered 1967-68. Thompson

351, 352 Advanced Design Semesters I and II, 3 cr. ea.

An advanced course in the coordination of chemical or nuclear engineering principles and economics to the design of complete industrial plants. Students work design problems on an individual basis, with the guidance of one or more instructors. Staff

2. Department of Civil Engineering

Add Civil Engineering

264 Marine Structural Design Semester I or II, 3 credits

Includes the design of marine structures, consideration of marine construction materials, water front structures, ocean towers and underwater structures. (Lec. 2, Lab. 3) Prerequisite: C. E. 61 Clarke

270 Open-Channel Hydraulics Semester I or II, 3 credits

Analysis of uniform, critical, varied flow, and unsteady flow in open channels. Principles will be applied to open channel design. (Lec. 3) Prerequisites: M.E. 54 Poon

D. College of Engineering

271 Biosystems in Sanitary Engineering

Semester I, 3 credits

A study of the microorganisms which constitute the biological systems in water pollution, water purification and waste water treatment. Application of principles of microbiology and biochemistry to analysis and design in the fields of sanitary engineering and water resources. (Lec. 2, Lab. 3) Prerequisite: Permission of the Instructor Poon

285 Soil Stabilization

Semester I or II, 3 credits

Factors that affect soil stability. Mechanisms of soil stabilization. Design and analysis of stabilized soils. (Lec. 2, Lab. 3) Prerequisite: C.E. 80 Roderick

3. Department of Mechanical Engineering

a. Delete Mechanical Engineering 1, 2 (7) Engineering Graphics

b. Add (under "Engineering"):

Engr.

2 Basic Graphics

Semester I or II, 1 credit

Theory of orthographic projection and principles of descriptive geometry, construction of exact drawings of three dimensional objects including auxiliary views, pictorial drawings, cross-sections and dimensioning, free-hand sketching. (Lab. 3) Staff

E. From the College of Home Economics

1. Department of Child Development and Family Relations

a. Increase credit and time designation to read:

C. F.

21 Family and Community Health
(Lec. 3)

Semester I or II, 3 credits

2. Department of Food and Nutrition

a. Add F.N.

8 Nutrition and Health

Semester I or II, 2 credits

The science of nutrition with application to diet therapy. (Lec. 2) Staff This course cannot be substituted for FN 7 in the Home Economics curriculum.

E. From the College of Home Economics

3. Department of Textiles & Clothing

a. Change the curriculum in Clothing & Textiles to read:

Column 1Proposed

HM 33, Home Furnishings	3
TC 27, Apparel Design	3
TC 132, Advanced Textiles	3
TC 133, Textiles & Clothing Industry	3
TC 141, Historic Textiles	3

Column 2 (21 credits required)

Textiles & Clothing	minimum of 6 credits
Art)
Education)
Business Administration)
Chemistry) minimum of 9 credits in
Home Management) one of these areas
Journalism)
Social Science)

(The remaining 6 credits may be taken in any of
the above areas)

F. From the Graduate Library School

1. Add L. S.

218 Storytelling

Semester I, 2 credits

The selection, adaptation, and presentation of stories for
children of all ages, including attention to sources of
materials, planning the story hour, and training and practice
in the art of storytelling. With permission of instructor
(Lec. 2) Staff

addendum to Report of CCA (28th), Part I, F.

Add changes in CF 37 and CF 39; making them co-requisite, and the courses will read as follows:

CF 37 Play, Equipment and Program Planning for Young Children
Semester I or II, 3 credits

Equipment and play materials used by young children to meet their needs. Value of play for child's total development. Criteria for selecting equipment. Some experience with creative materials. (Lec. 3) Recommended co-requisite: CF 39. Staff

Rationale for change - see CF 39

CF 39 Practice with Children Semester I or II, 4 credits

Supervised participation in the nursery school. Discussion and conferences. (Rec. 1, Lab. 6) Prerequisite: CF 34. Recommended co-requisite: CF 37, CF 39 may be taken after CF 37. Nursery school staff.